# PrepFAST SE

Benchtop System for Automated Sample Introduction of Ultrapure Chemicals

### **Automated Analysis of Undiluted Ultrapure Chemicals**

The prep*FAST* SE provides automated and precise introduction of neat ultrapure chemicals featuring syringe sample delivery. The system can be configured with multiple options to tailor performance for your most challenging semiconductor-grade chemical analyses.

Fluoronetics Drive Delivers

- Ultraclean Fluoronetic Autosampler with inert PTFE deck
- Integrated, exhausted enclosure with three-sided access for a clean sample environment
- · High precision, syringe-driven sample uptake and delivery

#### **Fluoronetic Autosampler**

- Probe arm fully encapsulated in fluoropolymer for maximum chemical resistance - no exposed metal anywhere in sample area
- Magnetically coupled linear drive for long lifetime
- DXCi autocorrecting autosampler goes to the correct position, even when temporarily obstructed
- Continuous flowing UPW rinse
- · Small benchtop footprint, available in two models
  - prepFAST SE micro (2 micro racks)
  - prepFAST SE 2DX (2 large racks, 4 micro racks)

### Syringe-Driven Sample Introduction

- Eliminates fluctuations in sample flow rate common with natural aspiration
- Software controlled flow rates for each chemical
  (<50 µL/min up to 400 µL/min)</li>
- · Precise uptake and analysis of small volume samples
- High speed washout of nebulizer & spray chamber between chemical types
- Automated external calibration, MSA calibration, & QC spiking



Superior Chemical/ Corrosion Resistance



Chemically Inert Non-contaminating

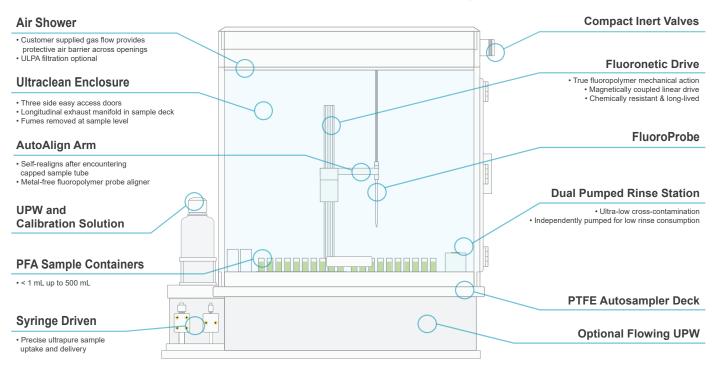
Magnetic Coupling Eliminates Metal Components



Intelligent Autocorrection Always Finds Sample Position

## prepFAST SE

### prepFAST SE 2DX Features Diagram



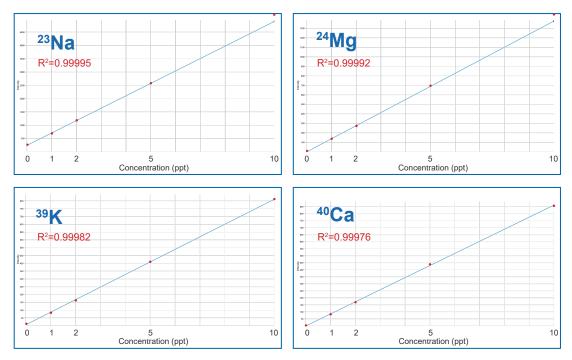
### prepFAST SE Options

- Clean air shower with ULPA filtration
- Leak Sensors
- · Valve for automated introduction of ICPMS tuning solutions
- UPW Intake Manifold and compact UPW valve
- Configurable with many PFA sample containers:
  - Micro sample vials (< 1 mL)
  - 15, 30, & 60 mL vials
  - 100, 250, & 500 mL bottles



prepFAST SE micro

### prepFAST SE Autocalibration – Na, K, Ca, Mg at 1, 2, 5, & 10 ppt in UPW



The prep*FAST* SE fully automates the inline preparation of calibration standards, eliminating contamination from manual dilutions. Supports both external and method of standard additions calibration techniques.



Syringe delivery of samples provides reliable and reproduceable sample introduction and eliminates issues common with natural aspiration.

### prepFAST SE Models and Sample Capacities

Model	Part Number	Large Racks - Max Sample Capacity					Micro Racks - Max Sample Capacity				
		# Rack Positions	125 mL bottles (SR)	50 mL tubes	15 mL tubes	8 mL tubes	# Rack Positions	15, 25, 30 mL vials	1, 2, 4, 12 mL vials	1, 2, 4 mL vials	1 mL vials
prep <i>FAST</i> SE micro	PF-SE	-	-	-	-	-	2	20	42	80	120
prep <i>FAST</i> SE 2DX	PF-SE-2FNXS	2	24	52	120	180	4	40	84	160	240



prep*FAST* SE 2DX model configured for semiconductor grade ultra-pure chemical analysis.







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